# Statement of Work for Rebuild of Harmonic Filter Assembly (1A15) NSN 5915-01-217-8911

SOW-02-847-2-8D919B-1/1

Prepared by
Marine Corps Systems Command, Code C4IHF
Marine Corps Logistics Bases, Albany, GA.

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# STATEMENT OF WORK FOR THE Rebuild of the Harmonic Filter Assembly (1A15) NSN 5915-01-217-8911

- 1.0 SCOPE. This Statement of Work (SOW) establishes and sets forth tasks and identifies the work efforts that shall be performed by the Contractor (for purposes of this SOW, Contractor is defined as the commercial or government entity performing the rebuild) in the rebuild effort of the Harmonic Filter Assembly (1A15). This document contains requirements to restore the Harmonic Filter Assembly (1A15) to Condition Code "A." Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned material which is serviceable and issuable to all customers without limitation or restriction, including material with more than six months shelf-life remaining."
- 1.1 <u>Background</u>. REBUILD is defined as "That maintenance technique to restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through a maintenance technique or complete disassembly of the item, inspection of all parts or components, repairs or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly of the items."
- 2.0 <u>APPLICABLE DOCUMENTS</u>. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

### 2.1 Military Standards.

MIL-STD-129 DoD Standard Practice for Military Marking
MIL-STD-2073-1D DoD Standard Practice for Military Packaging

2.2 Other Government Documents and Publications. The issues of those documents cited below shall be used.

TM-87107B-34/1	Maintenance Instructions for The Power Amplifier AM-6545 /GRC-193 w\Ch. 1 and 2	PCN 184 087106 00
SL-4-07743A/07749A	Repair Parts List for AN/MRC-138 w/Chg 1-15	PCN 124 077430 00
SL-4-07743A/07749A	Changes 16-24	PCN 124 077430 16-24

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#### 11 November 2001

PCN 170 080107 00

RS-87107B-50/3

w/Ch. 1-2

Depot Maintenance and

Rebuild Standard for AM-6545B/GRC-193

**Engineering Drawing** 

755017A4070 CAGE 80372

Harmonic Filter Assembly

DOD 4000.25-1-M

**MILSTRIP** Manual

TI-5820-25/22

Electromagnetic Environmental

PCN 168 047801 00

Effects (E3) Procedures

# Military Handbook (For Guidance)

MIL-HDBK-61

Configuration Management Guidance

#### 2.3 Industry Standards.

JESD625-A

Requirements for Handling Electrostatic-Discharge

Sensitive ESDS Devices

ANSI/ISO/ASQC

O9003-1994

Quality Systems-Model for Quality Assurance in

Final Inspection and Test

# **Industry Standards (For Guidance)**

ANSI/EIA-649

National Consensus Standard for Configuration

Management

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, Pa. 19111-5094, Telephone (215) 697-2179 or DSN 442-2179, or <a href="http://www.dodssp.daps.mil">http://www.dodssp.daps.mil</a>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Contracts Department, (Code 891), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Bases, Albany, Georgia 31704-3019, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

### 3.0 REQUIREMENTS.

- 3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall:
- a. Provide materials, labor, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, test and calibrate the Harmonic Filter Assembly 1A15. Upon completion of rebuild, the subject item shall be Condition Code "A".
- b. Conduct in-process and final on-site testing for witness by a Marine Corps Systems Command (MCSC), (Code C4IHF), Albany, Georgia, authorized representative.
- 3.2 <u>Detail Tasks</u>. The following tasks describe the different rebuild phases of the Harmonic Filter Assembly 1A15.
- 3.2.1 <u>Phase I- Pre-Induction</u>. A Pre-Induction Inspection Analysis shall be performed for each Harmonic Filter Assembly 1A15 using the Contractor Facility's diagnosis, inspection and testing techniques to determine extent of work and parts required. These findings shall be annotated on the Pre-Induction Checklist (Appendix A).
- 3.2.2 Phase II -Rebuild. After Pre-Induction Tests and Inspections have been completed, repair of the Harmonic Filter Assembly 1A15 shall be accomplished in accordance with this SOW. Deficiencies noted on the Pre-Induction Checklist (Appendix A) during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair. Any approved Modification Instructions (MIs) or Engineering Change Proposals (ECPs) not previously applied shall be incorporated.

#### a. Hardware.

- (1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turn lock fasteners, mandatory replacement items, safety and one-time use items, etc. Unserviceable would include any of the above that failed to function properly.
- (2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.
- (3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

#### 3.2.3 Phase III - Inspection, Testing and Acceptance.

Inspection, Testing and Acceptance of the Harmonic Filter Assembly 1A15 shall be conducted in accordance with TM-87107B-34/1 w/Ch. 1-2, SL-4-07743A/07749A w/Ch. 1-24, RS-87107B-50/3 w/Ch. 1-2, DoD 4000.25-1-M and Engineering Drawing 755017A4070, CAGE 80372.

### 3.2.4 Packaging, Handling, Storage and Transportation (PHS&T)

- a. The Contractor shall be responsible for preservation and packaging of the items being repaired under the terms of this statement of work. Items scheduled for long-term storage or shipment to overseas destinations shall be in accordance with the level "A" requirements of MIL-STD-2073-1D, Appendix A., Table A.VI., Electronic Equipment. Items scheduled for domestic shipment for immediate use or short-term storage shall be to level "B" requirements.
  - b. Marking for shipment and storage shall be in accordance with MIL-STD-129.
- c. The Marine Corps will provide the contractor with the shipping address(es) for delivery of the rebuilt equipment. The contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.
- 3.3 Configuration Control. The Contractor shall implement configuration control to established configuration items. The Contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation (RFD). If it is necessary to permanently depart from the authorized configuration, the Contractor shall prepare and submit an Engineering Change Proposal (ECP). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing these configuration control documents.
- 3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 573-2) will coordinate Government Furnished Equipment/Government Furnished Materiel (GFE)/(GFM) requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. (This can be done by mailing (Materiel Management Department, Management Control Activity (Code 573-2) 814 Radford Blvd, STE 20320, Albany, GA 31704-0320) or faxing (commercial 229-639-5498 or DSN 567-5498) a copy of the DD1348).
- 3.5 Contractor Furnished Materiel (CFM). The contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

- 3.6 <u>Electrostatic Discharge (ESD) Control Program.</u> The contractor shall establish, implement and document an ESD control program following the guidelines provided in JESD625-A. ESD protective measures shall be used during manufacturing, handling, inspection, testing, marking, packaging, storing and transporting ESD sensitive components.
- 3.7 <u>Electromagnetic Environmental Effects (E3) Procedures</u>. The Contractor shall plan for and use proper (E3) control procedures in the Rebuild process and shall utilize TI-5820-25/22 in conjunction with the detailed requirements specified in this document.
- 3.8 Quality Assurance Provisions. The Contractor shall provide and maintain a Quality System that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9003-1994, Quality Systems-Model for Quality Assurance in Final Inspection and Test. The program shall ensure quality throughout all areas to include processing, assembly, inspection, testing, maintenance and preparation for delivery and shipping. Unless otherwise specified in the contract, the contractor shall be responsible for performance of all inspection requirements. MCSC, (Code C4IHF), Albany, Georgia representative reserves the right to perform any of the inspections set forth in the contract where such inspections are deemed necessary to assure products and services conform to the prescribed requirements. The Contractor shall provide an Inspection and Test Plan that will ensure the Harmonic Filter Assembly 1A15 will meet or exceed the original performance characteristics of the Harmonic Filter Assembly 1A15. Inspection Test Plan shall be sent to: Marine Corps Systems Command, Attn: Logistics Management Specialist (Code C4IHF), 814 Radford Blvd., Albany, Georgia 31704-1128.
- 3.9 Acceptance. The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in-process review and inspection during performance. Inspection may be accomplished in-plant or at any work site or location, and MCSC, (Code C4IHF), Albany, Georgia representative shall be permitted to observe the work or to conduct an inspection. Final Inspection and Acceptance Testing shall be conducted at the Contractor's Facility. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.
- 3.10 <u>Rejection</u>. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC, (Code C4IHF), Albany, Georgia representative. The Contractor shall, at no additional cost to MCSC, (Code C4IHF), Albany, Georgia correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

## **Pre-Induction Checklist**

Harmonic Filter Assembly (1A15)

1.	Using the following	criteria,	inspect the	items	listea	below.

- a. Inspect for dirt, dust, sand, etc.
- b. Inspect for rust and/or corrosion damage.
- c. Inspect for any physical damage. (cuts, dents, cracks, broken pins, etc.)
- d. Ensure that all screws, washers, nuts, bolts, etc. are attached.
- e. Inspect for dry rot on all rubber and plastic components.
- f. Ensure that all covers and caps are attached.
- g. Ensure that all knobs, switches and breakers operate freely and properly.

S - Serviceable	U - Unserviceable	M - Missing	
Remarks:			

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

DD FQRM 1423-1, AUG 96 (EG)

Form Approved OMB No. 1704-0188

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Other XXX

F. CONTRACTOR D. SYSTEM/ITEM E. CONTRACT/PR No. Harmonic Filter Assembly (1A15) 1. DATA ITEM No. [2. TITLE OF DATA ITEM 3. SUBTITLE ENGINEERING CHANGE PROPOSAL (ECP) CONFIGURATION MANAGEMENT B001 4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE DI-CMAN-80639C SOW Para. 3.3 **MARCORLOGBASES 583-1** 12. DATE OF FIRST SUBMISSION 7. DD 250 REQ DIST STATEMEN DISTRIBUTION REQUIRED AS REQ **SEE BLOCK 16** b. COPIES LT 11. AS OF DATE 3. DATE OF SUBSEQUENT 8. APP CODE a. ADDRESSEE SUBMISSION Draft A MCLBA 583-1 O Block 4: Contractor Format using .doc or .pdf software application is authorized. Block 10 & 12: ECPs shall be submitted for all proposed changes which permanently affect the baseline of a configuration item. ECPs will be reviewed and disposition determined within 20 working days upon receipt by the government. ECPs shall be transmitted via e-mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil. Distribution Statement A: Approved for public release, distribution is unlimited. 15. TOTAL 0 H. DATE PPROVED BY: J. DATE

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